

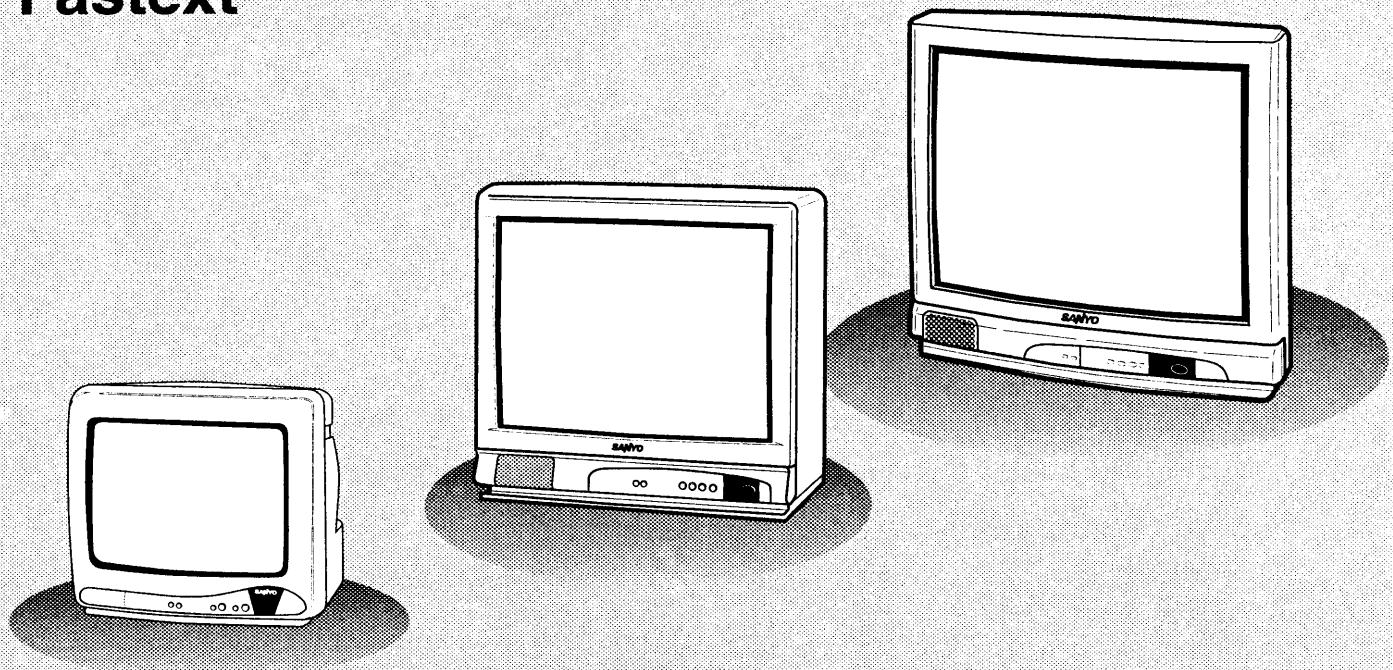
**SANYO**

## **INSTRUCTION MANUAL**

**Colour Television**

<b>14MT1</b>	(C14EA95B)
<b>21M1</b>	(C21EF90B)
<b>21MT1</b>	(C21EF95B)
<b>25MT1</b>	(C25EG95B)

## **Fastext\***



*Please read this instruction book before using your television.  
We wish you many hours of pleasure from your new television.*

\* Model 21M1 (C21EF90B) is not equipped with FASTEXT.

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# Safety Precautions

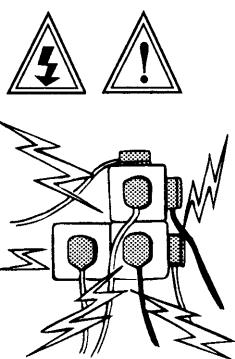


Installation  
Use

## CAUTION: Please read and retain for your safety.

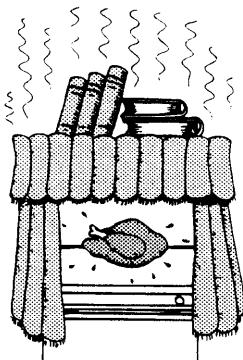
This unit has been engineered and manufactured to assure your personal safety, but improper use can result in potential electrical shock or fire hazards. In order not to defeat the safeguards incorporated in this receiver observe the following basic rules for its installation, use and servicing.

### INSTALLATION

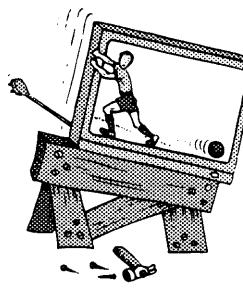


**Do not** allow anything to rest on the power cord.

**Do not** locate this television receiver where the cord will be damaged by people walking on it.

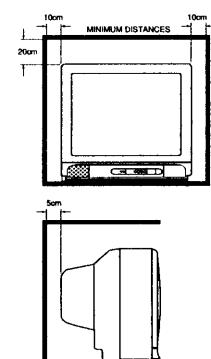


**Do not** overload wall outlets and extension cords as this can result in fire or electric shock. Slots and openings in the cabinet and in the back or bottom are provided for ventilation to ensure reliable operation and to protect it from overheating. These openings **must not** be blocked or covered.



The opening **should never** be covered with a cloth or other material, and the bottom openings **should not** be blocked by placing the television receiver on a bed, sofa, rug, or other similar surface.

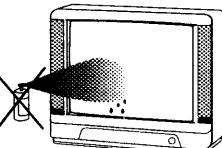
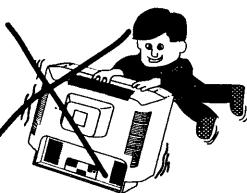
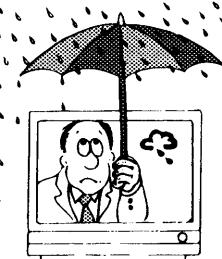
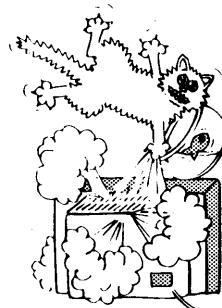
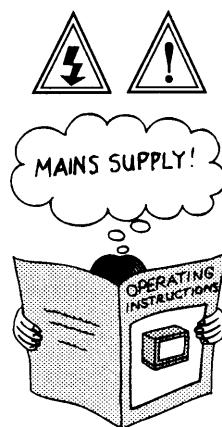
This television receiver **should never** be placed near or over a radiator or heater.



**Do not** place your television receiver on an unstable stand, shelf or table. Serious injury to an individual, and damage to the television may result if it should fall. Your dealer can recommend approved stands, shelves and wall mounting instructions.

If the television is to built into a unit, or enclosed, the minimum distances for ventilation **must** be maintained. Heat build up can reduce the life of your television, and can be dangerous.

### USE



This television receiver should be operated only from the type of power source indicated on the television or as indicated in the Operating Instructions. If you are not sure of the type of power supply in your home, consult your sales person or your local power company.

**Never** add accessories that have not been specifically designed for this television.

**Do not** drop or push objects into the television cabinet slots or openings. Some internal parts carry hazardous voltages and contact may result in an electrical shock.

**Never** spill liquids of any kind on the television receiver.

**Do not** expose the television receiver to rain or use near water. For example, near a bathtub, kitchen sink, in a wet basement, etc. Before cleaning, unplug the television receiver from the wall socket.

**Never** stand on, lean on or push suddenly the television or its stand. You pay particular attention to children. Serious injury may result if the TV set should fall.

**Do not** apply liquid cleaners or aerosol cleaners directly onto the television receiver. Use a damp cloth for cleaning.



# Installation

## ● Mains Supply

### Mains Supply

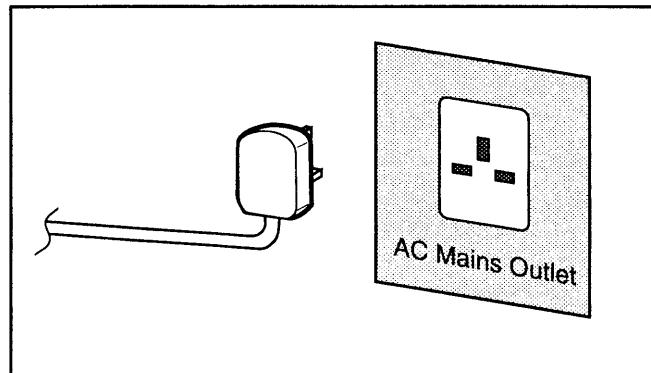
The TV set is prepared for a mains voltage AC220~240V 50Hz. Connect the power cord of the TV set to a wall outlet.

When the TV set is not to be used for an extended period of time, it is advisable to disconnect the power cord from the power outlet.



#### WARNING!

High voltages are used in the operation of this set. Refer service to qualified service personnel.



#### Important:

This equipment is fitted with an approved non rewirable UK mains plug.

To change a fuse in this type of plug proceed as follows:

1. Remove the fuse cover and fuse.
2. Fix a new fuse which should be a BS1362 5 Amp A.S.T.A. or BSI approved type.
3. Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place. If the mains plug contains a fuse, this should have a rating of 5 Amp. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5 Amp.

**Note:** The severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13 Amp socket elsewhere.

The wires in this mains lead are coloured in accordance with the following code:

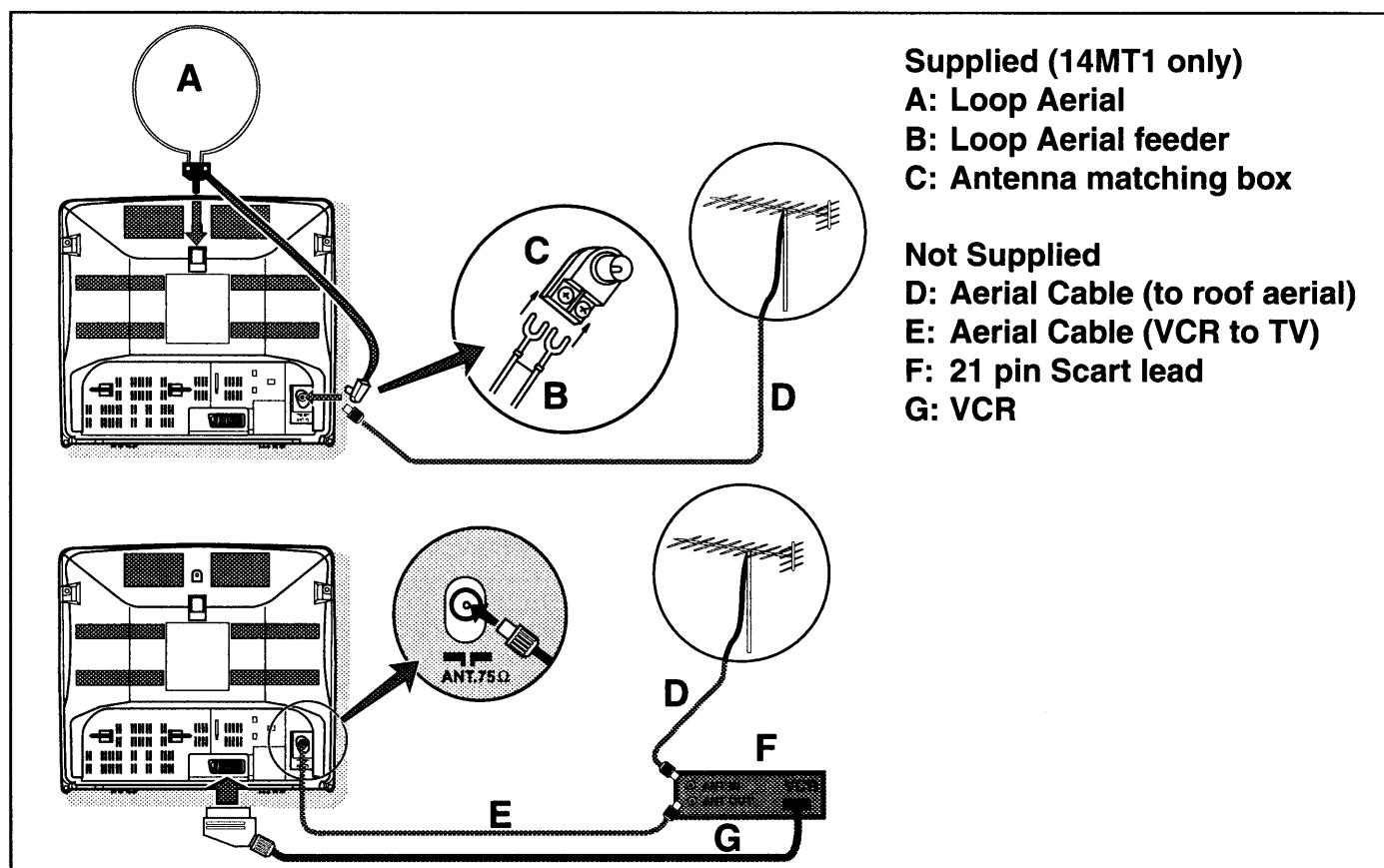
Blue -----> Neutral  
Brown ----> Live

1. The Blue wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.
2. The Brown wire must be connected to the terminal with the letter "L" or coloured RED.
3. **Do not** connect either wire to the earth terminal in the plug which is marked with the letter "E" or by the earth symbol or coloured GREEN or GREEN and YELLOW.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the wires.



Aerial and Scart Cable Connection ●  
Remote Control Battery Installation ●

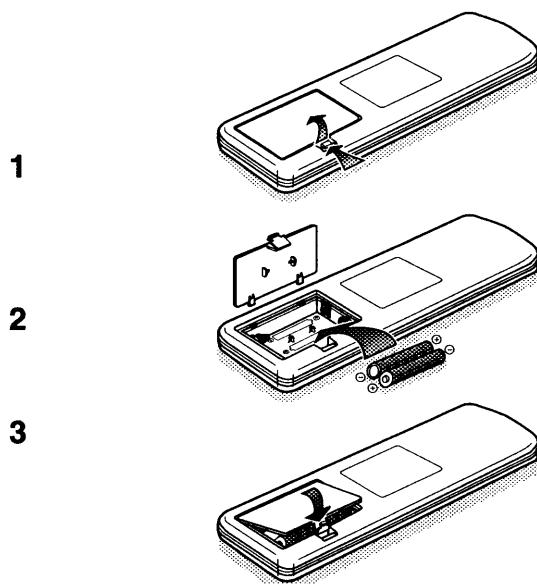


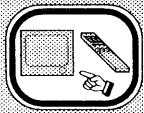
- The aerial socket is located on the back of TV set.
- A colour picture of good quality requires a higher aerial signal than a black/white picture. If you tune your set to a station with a weak colour signal, the TV set automatically changes to a black/white picture.
- For all aerial problems please consult your local dealer.
- For the best signal quality, the use of a well shielded antenna cable is recommended.

## Remote Control Battery Installation

1. Remove the battery cover by sliding it in direction of the arrow.
2. Install two "AA" 1.5 volt batteries so that the "+" and "-" marks on the batteries match the "+" and "-" marks inside the unit.
3. Close the battery cover.

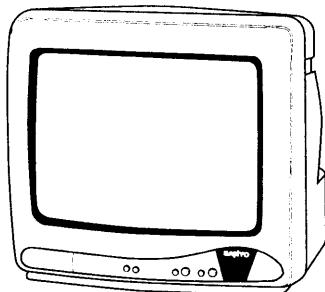
**Note:** Replace the batteries when the TV set is showing the following symptoms: Operation is unsteady or erratic, sometimes the TV does not work with the transmitter. Discharged batteries may leak and damage the unit. The normal life of batteries should be from nine to ten months.



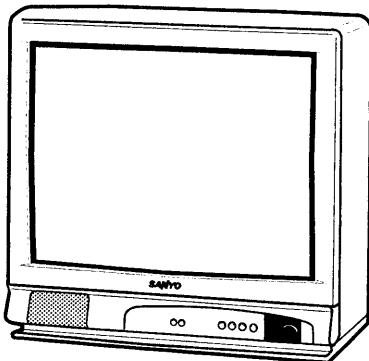


# General Operation

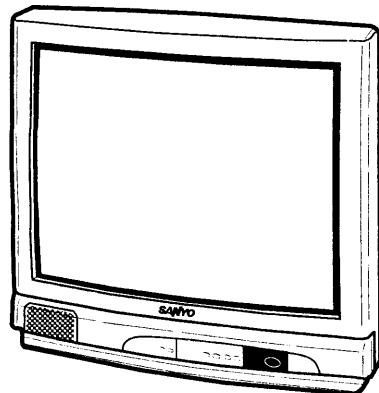
## ● Controls



**14MT1**



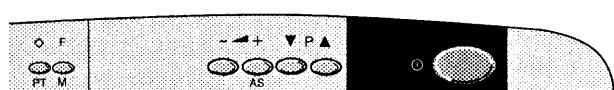
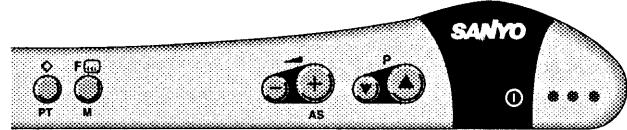
**21M1/21MT1**



**25MT1**

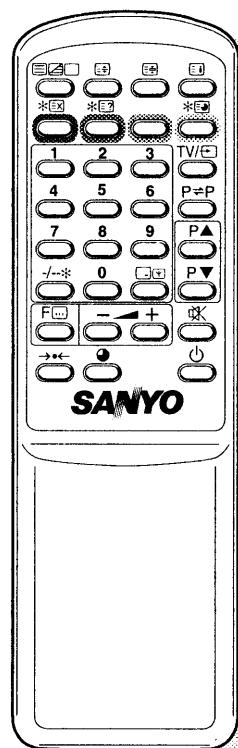
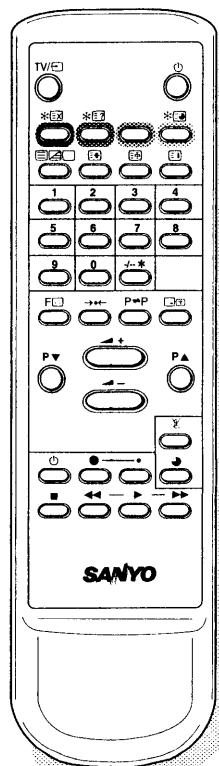
### Controls on TV front

Symbol	Function	Page
(I)	Mains On/Off	7
P ▲	Programme Up	7,8
▼ P	Programme Down	7,8
◀ + / AS	Level Up / Auto preset start	8,10
→ -	Level Down	8
F [ ] / M	Function / Preset memory	8
◇ / PT	Memory / Preset mode selector	9,10,11,20



### Controls on Remote control

Symbol	Function	Page
(I)	Standby power On/Off	7
▼ P ▲	Programme Up/Down	7,8
0 - 9	0 - 9 Numeric buttons	8
-/-*	Digit	8
◀ +	Level Up/Down	8,10
F [ ]	Function	8
🔇	Sound Mute	9
↔↔	Normalisation	9
TV/[ ]	TV / AV mode switch	9
P=P	Programme alternation	14
●	Time mode	12,13
[ ] Y	Recall (on screen display)	14,21



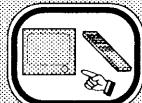
**21M1**

**21MT1**

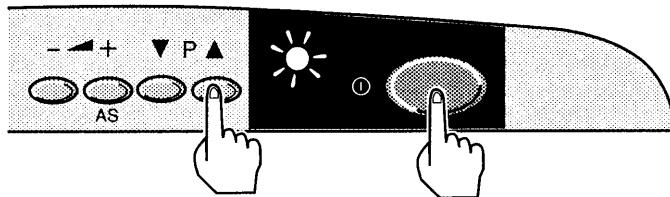
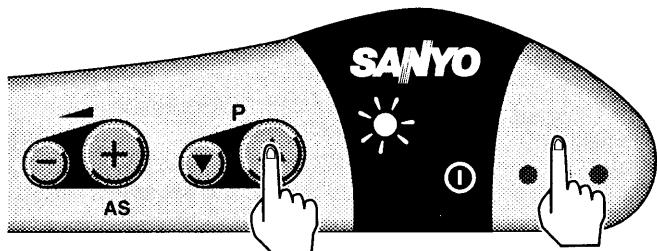
**25MT1**

**14MT1**

# General Operation



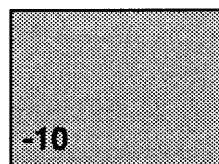
Mains On/Off ●  
Auto Shut Off ●



21M1/21MT1/25MT1



14MT1



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## Mains On/Off

- To turn the TV set ON, press the **Mains ON/OFF switch**. The power indicator illuminates to show the power is on.
- To turn the TV set OFF, press it again.

## Switching ON/OFF with Remote Control Transmitter

- To turn the TV set into standby mode, press the **Standby button** . The power indicator illuminates more brightly.
- To turn the TV set ON from standby mode, Press any of the following buttons; **Standby button** , **Programme Selector P▲/P▼**, **Numeric buttons (0 to 9)**.

In the Standby mode the TV set is still partially powered, this is denoted by the red Standby/Power indicator illuminating more brightly than in Power mode.

**Mains ON/OFF switch** must be in the ON position before using the remote control transmitter.

### NOTE:

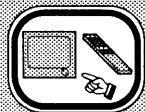
It is not possible to turn on with the **Mains ON/OFF switch** from the standby mode.

Be sure to switch Off using the **Mains ON/OFF switch**, if a power failure occurs while viewing.

## Auto Shut Off

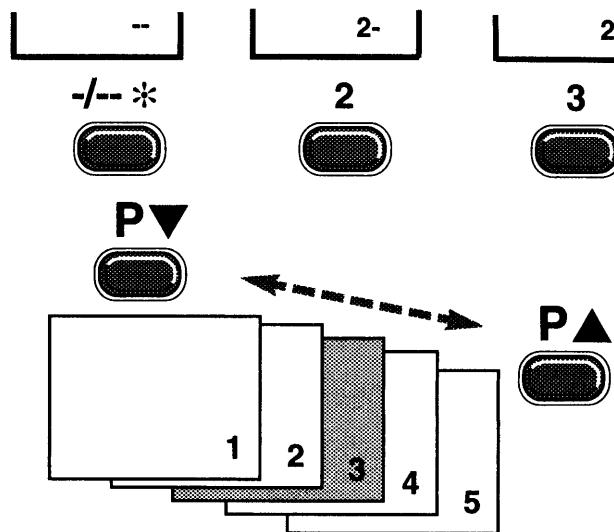
This TV set will automatically switch into the standby mode, 10 minutes after a signal is no longer received. The time until the set will switch off is displayed on the screen.

- If the aerial is removed the TV will automatically shut off.
- When the TV set is switched on by using the on-timer function with no signal being received, the auto-shut off function will be ignored.



# General Operation

- Programme Selection
- Sound & Picture Setting



## Programme Selection

### ■ Direct Programme Selection

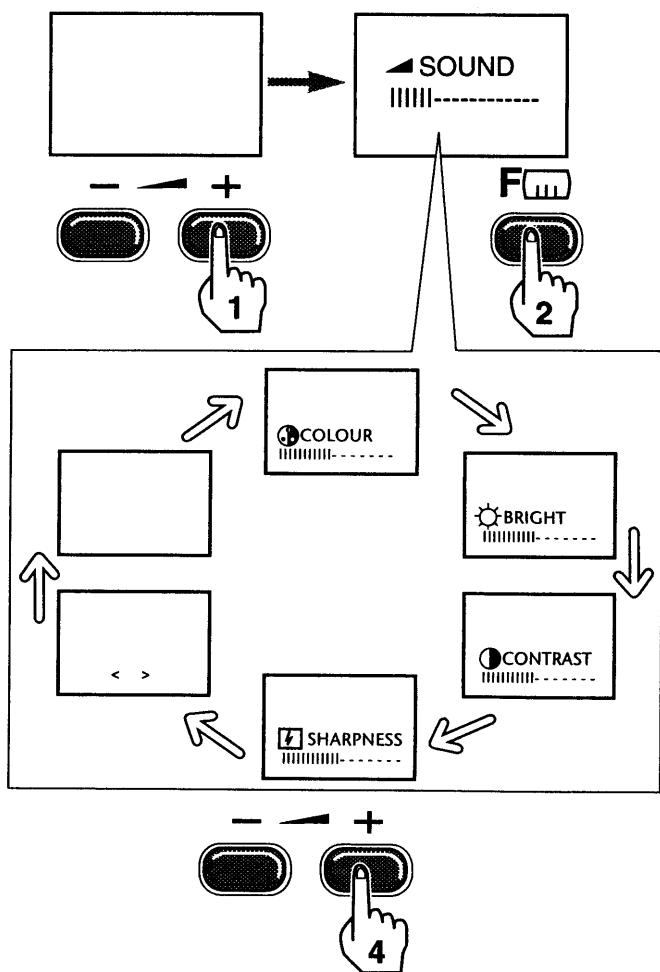
For selection of programme position 0 to 9, press the corresponding **numeric button (0-9)**.

If the required programme is equal or more than 10, for example 23, first press the **-/-\*** button and enter 2 then 3.

### ■ Up/Down Programme Selection

Press the **P▲** button to select the next programme position.

Press the **P▼** button to select the previous programme position.



## Sound & Picture Settings

### ■ Volume control

**1** To adjust the sound volume, press the **-/- +** button.

### ■ Picture controls

**2** Select from the following functions: Colour, Brightness, Contrast, Sharpness, Fine tuning by pressing the **Fm** button .

**3** Each time the **Fm** button is pressed, the function display changes as illustrated.

● **Colour** : To adjust the picture colour.

● **Bright** : To adjust the picture brightness.

● **Contrast** : To adjust the picture contrast.

● **Sharpness** : To adjust the picture sharpness.

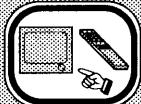
● **Fine tuning** : To make fine adjustments to tuning.

**4** To adjust the level of the selected function, press the **-/- +** button.

#### Note:

Normally fine tuning is not required for this TV. However, in some cases (such as radio interference) the picture may become clearer by detuning from the best tuned frequency. In such a case, you can use this fine tuning to eliminate interference patterns.

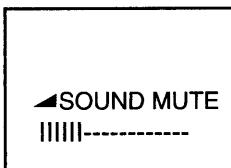
# General Operation



Memory & Normalisation ●  
TV/AV Switching ●

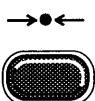
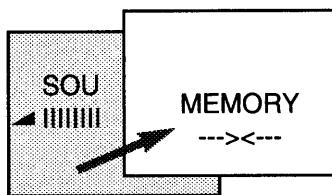
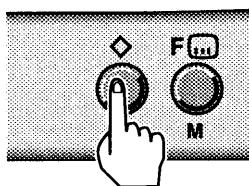


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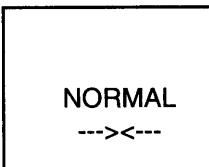


## ■ Sound Mute

Should you wish to mute the sound (Eg. while talking on the telephone), press the button once. To switch the sound back on, press it again.



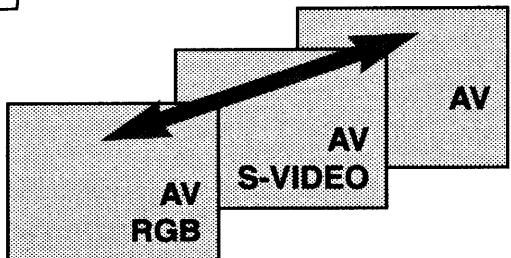
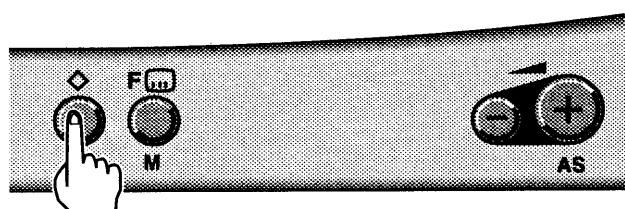
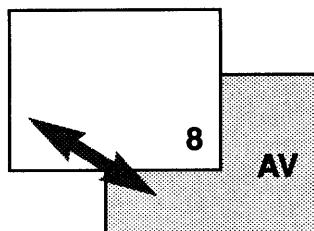
→•←



## Memory & Normalisation

### ■ Memory

Present Sound volume, Colour, Brightness, and Contrast can be set into the memory by pressing the button. This must be done while the Function on screen display is still on the screen, (approx 5 seconds).



## ■ Normalisation

Press the button to recall the picture and sound settings stored in the memory.

## TV/AV Switching

### ■ TV/AV Selection

You can select a playback from the AV terminal by pressing the button and the mode changes as illustrated.

When the programme number is entered in the AV mode, the TV set switches to the entered programme position directly.

If ITEM 4 is set to 1 in special function, the TV set can not return to TV mode by pressing the TV/AV selector or numeric buttons depending on the condition of AV equipment. (See Special functions page 21).

### ■ AV Input mode Selection

The input signal from the AV equipment which is connected to the 21 pin terminal is selected by pressing the button in the AV mode.

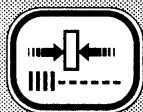
Each time the button is pressed, the input mode change as follows:

**AV:** Video input mode

**AV S-VIDEO:** S-Video input mode\*

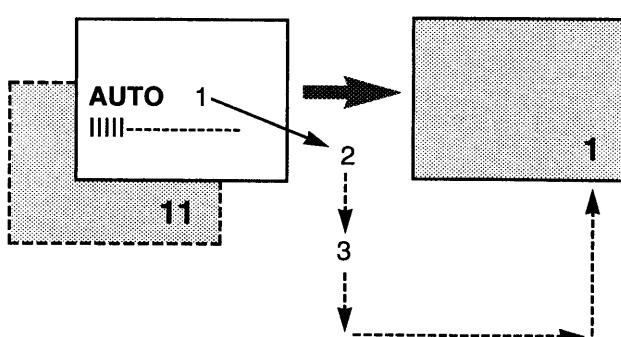
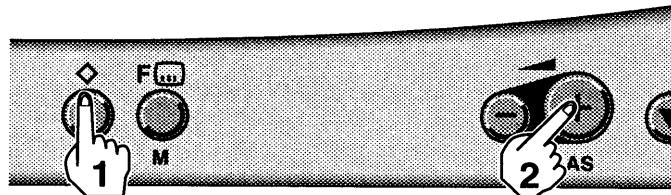
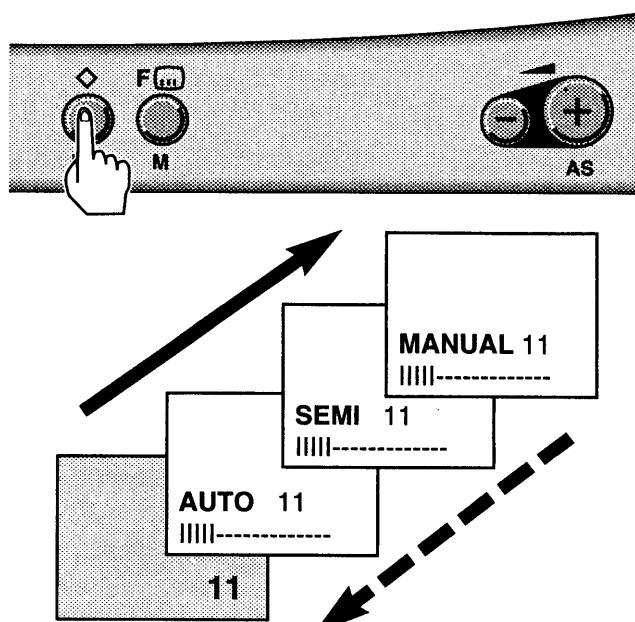
**AV RGB:** RGB input mode

\*Only model 25MT1 has the capability of S-Video Input through the Scart Socket.



# Presetting

## ● Auto Presetting



Up to 60 broadcast stations in your reception area can be stored in the electronic memory.

There are three ways of pre-setting modes:

### ■ Automatic presetting

All receivable channels are automatically tuned in and memorised as they are found in consecutive programme positions.

### ■ Semi-automatic presetting

Use to preset a receivable channel in any desired programme position, e.g. BBC1 at position 1.

### ■ Manual presetting

Manually tune a channel if it cannot be automatically tuned, such as when the signal is poor.

Preset functions can be prohibited by the Special function Item-1. See page 21.

To select the presetting mode, press and hold the **◇/PT** button for more than 2 seconds.

Each time the **◇/PT** button is pressed, the tuning mode changes as illustrated.

## AUTO Presetting

**1** Press and hold the **◇/PT** for more than 2 seconds, until the AUTO-tuning display appears.

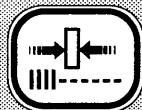
**2** Press the **→ + (AS)** button to start automatic presetting start.

The channels are stored in consecutive positions beginning at programme position "1".

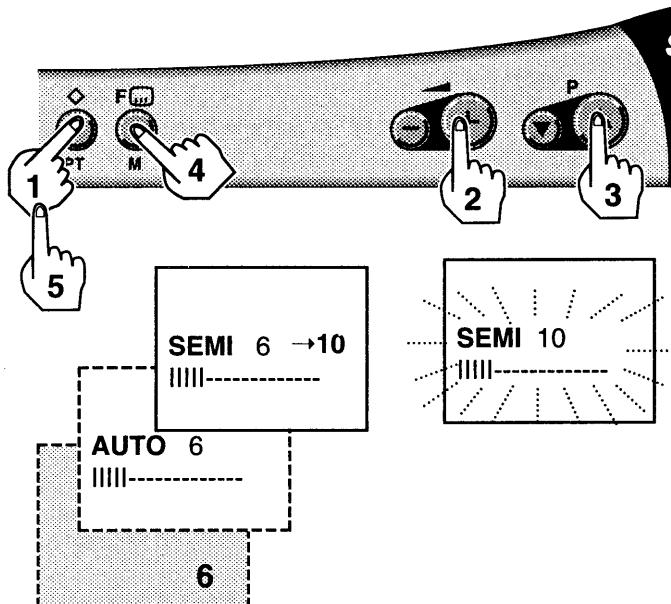
After all receivable channels have been found and stored, the TV set returns to the position "1".

#### Note:

To cancel searching midway, press the **◇/PT** button.



## SEMI-Auto Presetting



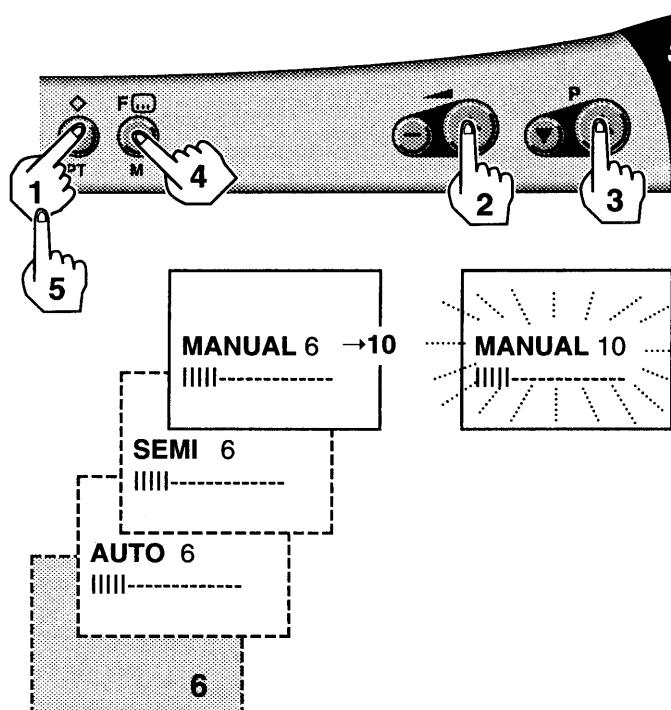
- 1 Press and hold the **D/PT button** for more than 2 seconds until the AUTO-tuning display appears. Press the **D/PT button** again to select SEMI-automatic presetting mode.
- 2 Press the **- + button** to start searching, when a station is found, searching stops automatically.
- 3 Select the programme position where you wish to store the channel using the **P▲,▼ buttons** or **Numeric buttons (0-9)**.
- 4 Press the **F... button** on the TV set to store in the memory.

**Repeat steps 2 to 4 for other desired channels**

- 5 Press the **D/PT button** twice to return to normal TV mode.

This completes the presetting.

## Manual Presetting



- 1 Press and hold the **D/PT button** for more than 2 seconds until the AUTO-tuning display appears. Press the **D/PT button** twice to select MANUAL presetting mode.
- 2 Press and hold the **Level (+) or (-) button** until the desired station appears.
- 3 Select the programme position where you wish to store the channel using the **P▲,▼ buttons** or **Numeric buttons**.
- 4 Press the **F... button** on the TV set to store in the memory.

**Repeat steps 2 to 4 for other desired channels**

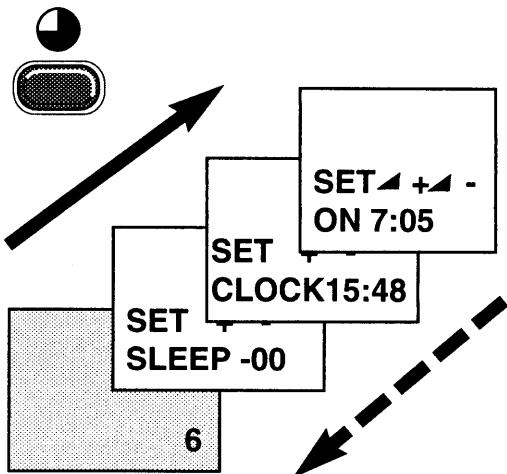
- 5 Press the **D/PT button** once to return to the normal TV mode.

This completes the presetting.



# Clock Function

- Time Display
- Auto Clock Setting
- Manual Clock Setting



This TV has a clock function which can be displayed on the screen, to switch on the TV set at a desired time and to switch off into standby mode after a preset period of time.

## Time Display

(Not available on model 21M1 (C21EF90B))

To select the different clock functions, press the

- **Button**, each time it is pressed the display changes as follows.
- Sleep timer display/setting mode
- Clock display/setting mode
- On-timer display/setting mode
- No time display on the screen

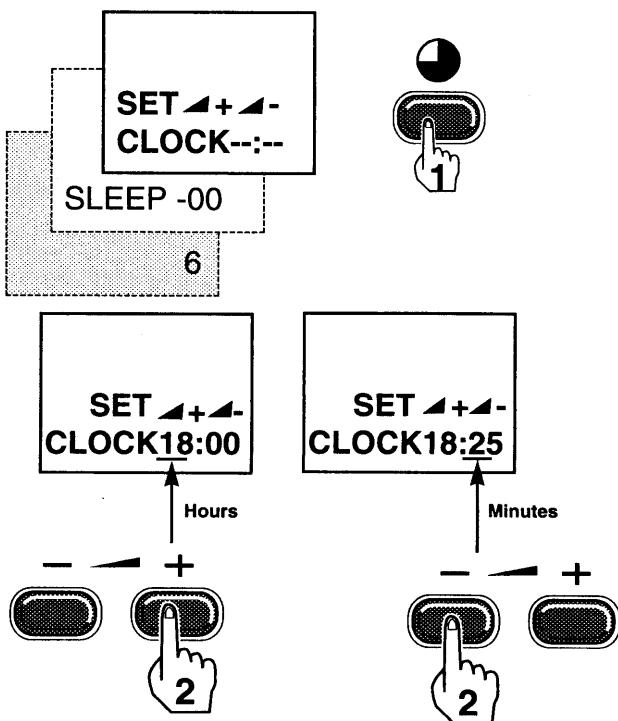
## Auto Clock setting

(Not available on model 21M1 (C21EF90B))

This TV set will automatically set the clock by using the teletext service. Therefore, you do not need to set the clock time.

The clock setting is performed when turning on with the mains switch and selecting a programme position with teletext.

If the reception signal is weak or there is no teletext service, this function will not operate properly and the words "CLOCK--" will appear on the screen. In this case, you can manually set the clock.



## Manual Clock Setting

(Not available on model 21M1 (C21EF90B))

### SETTING PROCEDURE

For example: Set clock at PM 6:25.

**1** Press the ● **button** twice to select the clock display/setting mode.

**2** Set hours "18"(24 hours clock) by pressing the ← + **button**. It changes as follows:

00→01→02-----22→23→00----

**3** Set minutes "25" by pressing the ← → **button**. It changes as follows:

00→01→02-----58→59→00→01----

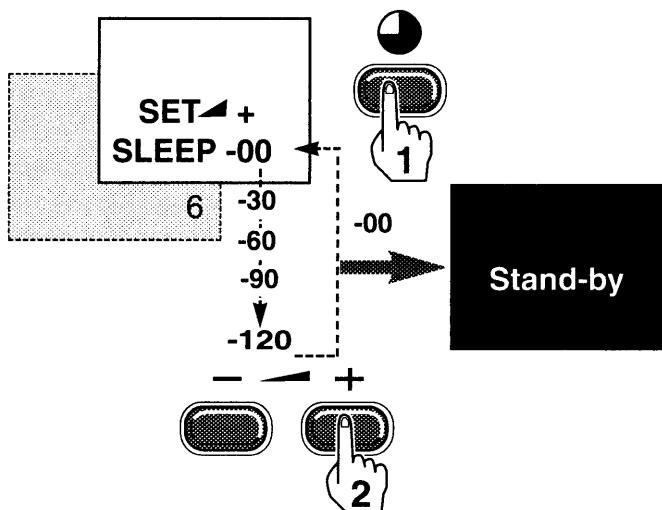
*Note: The clock timer starts after releasing the ← → button.*

The On-screen display will disappear 10 seconds after the last button is pressed.

# Clock Function



Sleep Timer Setting ●  
On-Timer Setting ●



## Sleep Timer Setting

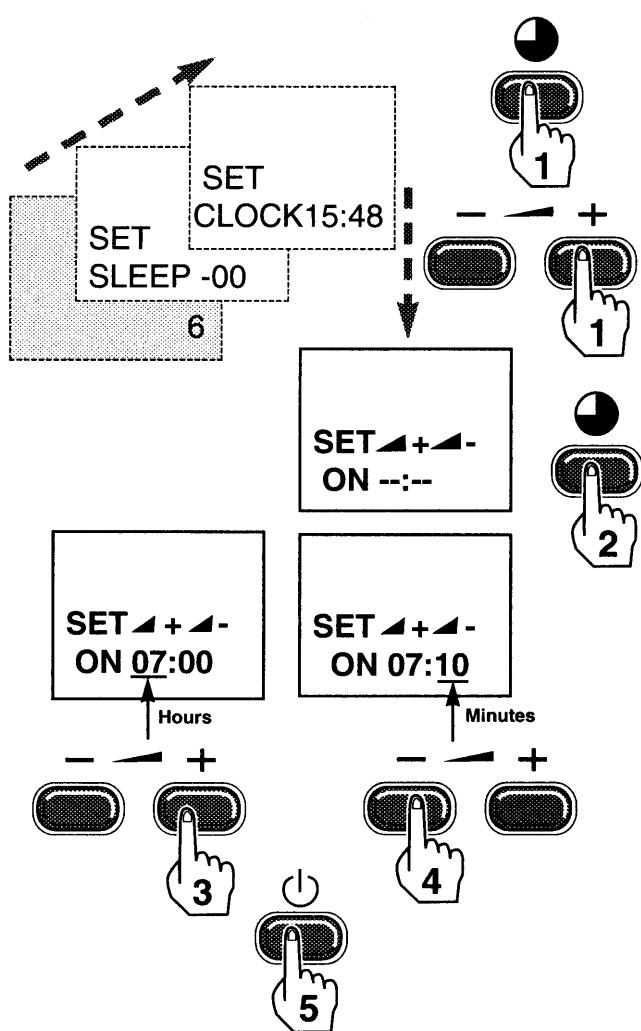
You can select a time period from which the set will switch into stand-by mode.

- 1 Press the ● button once to select the sleep timer display/setting mode.
- 2 Press the ▶+ button, repeatedly to select the time period which changes as follows:

-30(minutes) → -60 → -90 → -120 → -00 → -30→ -60 →

To cancel the Sleep timer, select "-00" using the above procedure.

**The On-screen display will disappear 10 seconds after the last button is pressed.**



## On-Timer Setting

(Not available on model 21M1 (C21EF90B))

### SETTING PROCEDURE

For example: Set switch on-time for 7:10. AM.

The time is set from the Teletext service and for some satellite or cable programmes this may be European time.

- 1 Press the ● button twice to select the set clock mode. Check to see if the displayed time is GMT or European time zone, if it is European time press the ▶+ button to select the correct hour for UK time.

- 2 Press the ● button again to select the on-time display/setting mode.

- 3 Set hours "07"(24 hours clock) by pressing the ▶+ button. It changes as follows:

00→01→02→→→→22→23→00→→→→

- 4 Set minutes "10" by pressing the ▶- button. It changes as follows:

00→01→02→→→→58→59→00→01→→→→→→

To cancel the set on-time, press the /--: button. The "ON --:" will appear on the screen.

- 5 Switch into the standby mode by pressing the ○ button.

The red power indicator illuminates to show you have set the on-timer and the set switches into Standby mode.

When the set on-time time is reached, the TV set will switch on automatically.

**All On-screen displays will disappear 10 seconds after the last button is pressed.**

- If the TV set is switched off using the Mains On/Off Switch or a power failure occurs, the On-Timer set, the Sleep Timer set and the manual clock settings will be cancelled.
- The TV set switches on by the On-timer at the programme position determined by **Special Function** Item2, see page 21.
- When the TV set is switched on by using the on-timer function, the TV set will automatically switch into standby mode in 2 hours if no key control is input.
- If the clock time has not been set, the on-timer function will be skipped.



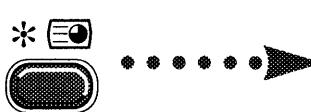
# Other Functions

## ● Time Call

## ● Alternative Programme

## ● Recall

## ● VCR Use



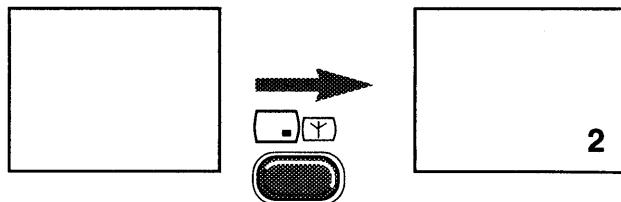
### ■ Time Call

In the TV mode, if the receiving programme has a teletext service when the **\*** button is pressed, the present time will be displayed on the screen for 5 seconds.



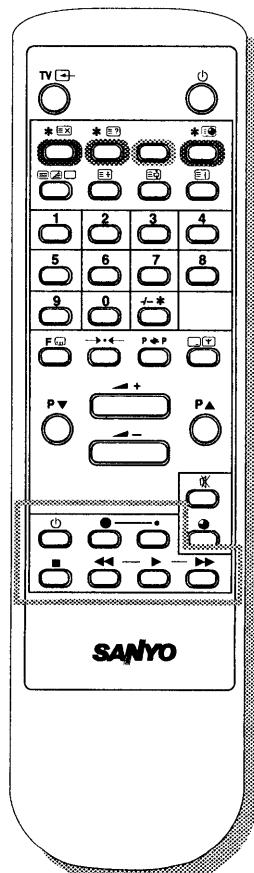
### ■ Alternative Programme

Press the **P-P** button and the TV set will alternately select the current programme position and the previous programme position is viewed.



### ■ Recall

To display the on-screen indications, press the **Y** button. The display disappears after five seconds.



### ■ VCR Use (Not available 14MT1)

This remote control transmitter has been designed to be used in conjunction with selected **SANYO VCR**s. Some SANYO VCRs may have their own functions, so please refer to the individual instruction booklet when using this remote control to ensure compatibility.



#### POWER On/off:

Use to turn VCR power on and off.



#### PLAY:

Use to playback the tape.



#### STOP :

Use to stop the movement of the tape.



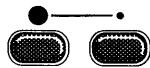
#### FAST/CUE:

Use to advance the tape at fast speed, or in order to playback the tape at fast speed.



#### REWIND/REVIEW:

Use to rewind the tape or in order to playback the tape in reverse at fast speed.



#### RECORD:

Use to record on the tape. Press both of the RECORD buttons at the same time.

# Teletext use

(Teletext not available on model 21MT1 (C21EF90B))

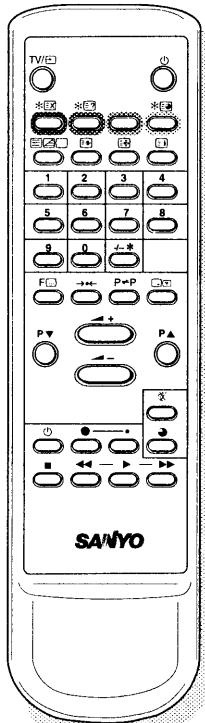


Teletext Controls ●

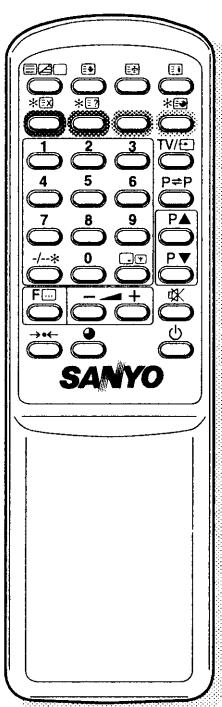
Switching to the Teletext mode ●

Page Selection ●

25MT1/21MT1

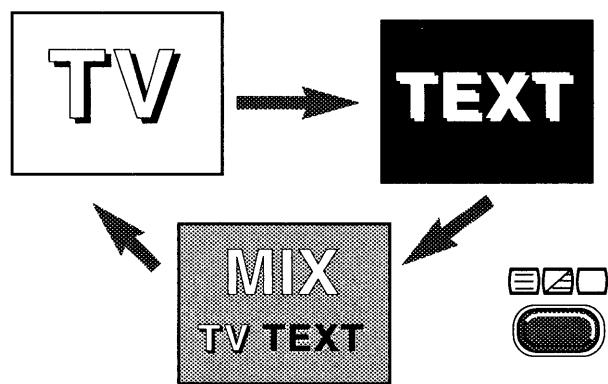


14MT1



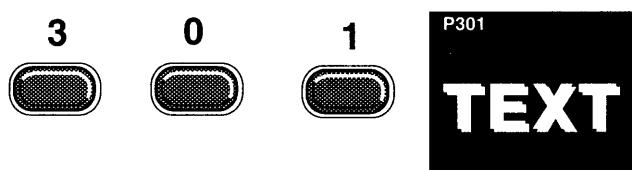
## Teletext Controls

Button symbol	Function	Page
□■□	TEXT/MIX/TV SWITCH	15,16,17,18
0 - 9	0 - 9 Numeric Buttons	15,18
▼ P ▲	Page Up/Down	16,18
■	Index page selection	16
■■	Hold	16
■■■	Size	17
-/-*	Text function	18,19
*EX	Cancel	18,19
*E?	Sub page button	18
*E?	Reveal	19
O	Red	16
O	Green	16
O	Yellow	16
O	Blue	16



## Switching to the Teletext mode

Press the □■□ button once to select Text only, press again to select Text over the TV picture and press again to return to the TV mode.



## Page Selection

### ■ Direct page selection

Enter a page number directly using **Numeric buttons** (0-9) eg. To select page 301, press 3 then 0 and then 1.

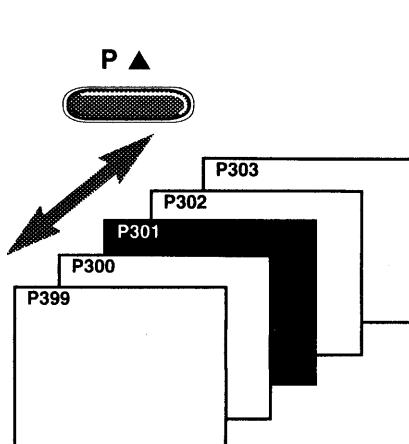
It will take a while to search for the page, once it is found it will be displayed on the screen.



# Teletext use

(Teletext not available on model 21M1 (C21EF90B))

- Page Selection
- Index Page Selection
- Hold



## ■ Up/down page access

Press the **P▲** or **P▼** button to select the next or previous page number.

**P▲** : P301 → P302 → P303 .... P399 → P300 ....

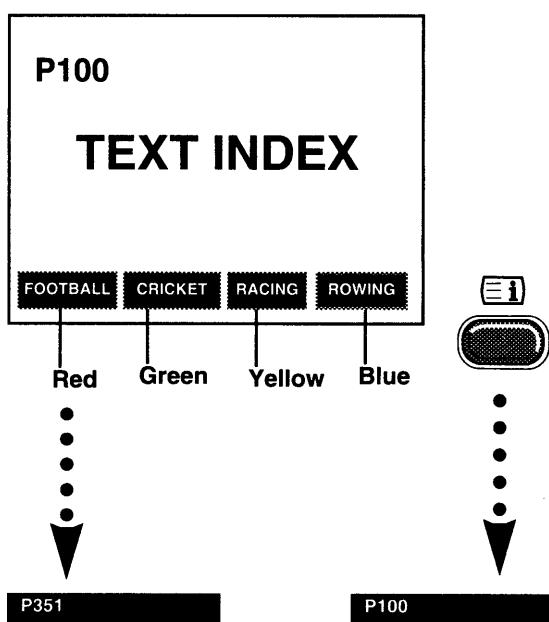
**P▼** : P301 → P300 → P399 → P398 .... P301 ....

Hold the button for rapid page change.

## ■ Coloured button page access

Press one of the **4 coloured buttons** to select the topics shown at the bottom of the text screen.

For example the Red topic can be selected by pressing the **Red button**, the Blue topic by the **Blue button**, and so forth with the other colours.



## ■ Index page selection

Press the **I** button to select one of the teletext index pages.

## Non FLOF Service

If the teletext service is not transmitting FLOF then 4 coloured page numbers will appear at the bottom of the screen instead of the topics.

## Hold



Press the **HOLD** button to prevent sub pages changing.

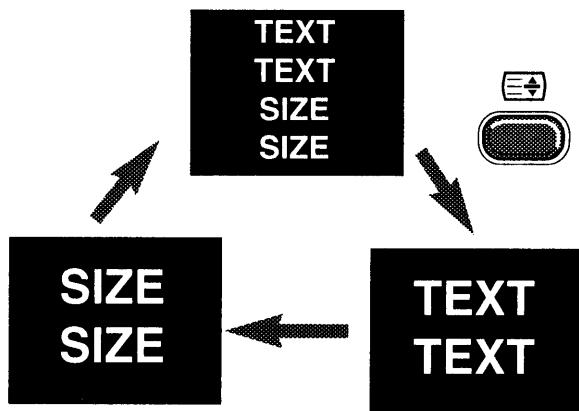
Some teletext pages are made up of several sub pages. These sub pages are automatically changed. Sub page is shown as P2/4 (sub page 2 of 4 pages) the location on the text page depends on the text service.

# Teletext use



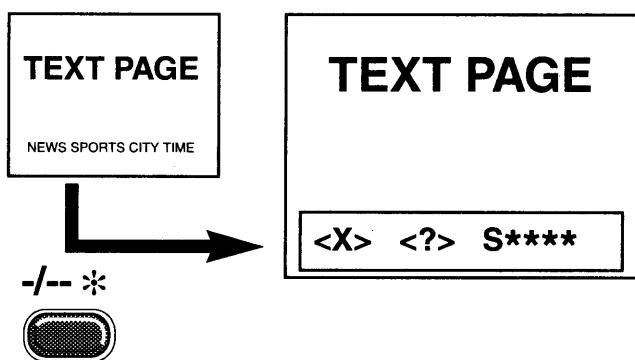
(Teletext not available on model 21M1 (C21EF90B)

- Double Letter height
- Teletext Function button
- Viewing TV while searching for a page



## Double Letter height

Either the top half or the bottom half of the page can be expanded to fill the whole screen by pressing the **TEXT** button. Each time the button is pressed, the display changes as illustrated.

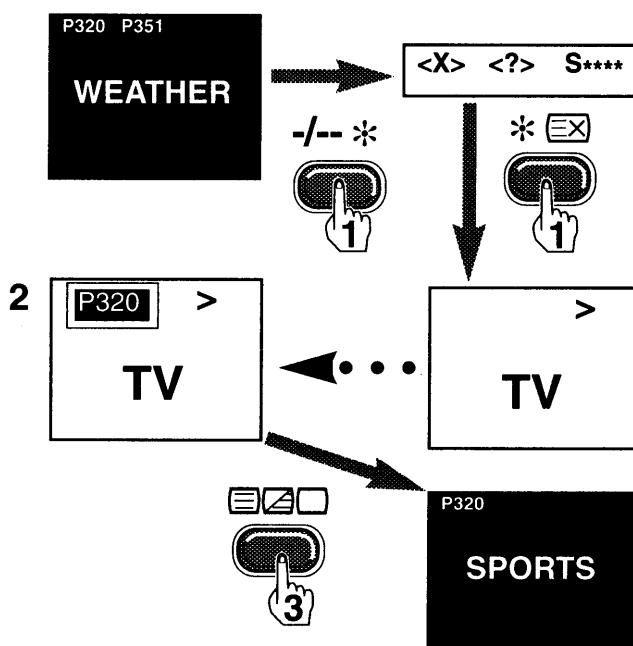


## Teletext Function button

To use the **\*EX**, **\*EQ** or **\*EC** button in teletext mode, press the **-/-\*** button first, then press required button.

When the **-/-\*** button is pressed, the display on the screen changes as illustrated.

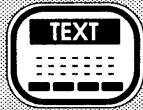
Press the **\*EX**, **\*EQ** or **\*EC** button as required, or return to the normal text display, by pressing it again.



## Viewing TV while searching for a page

Sometimes the page access can take some time. While waiting you can view the TV picture by pressing the **\*EX** button.

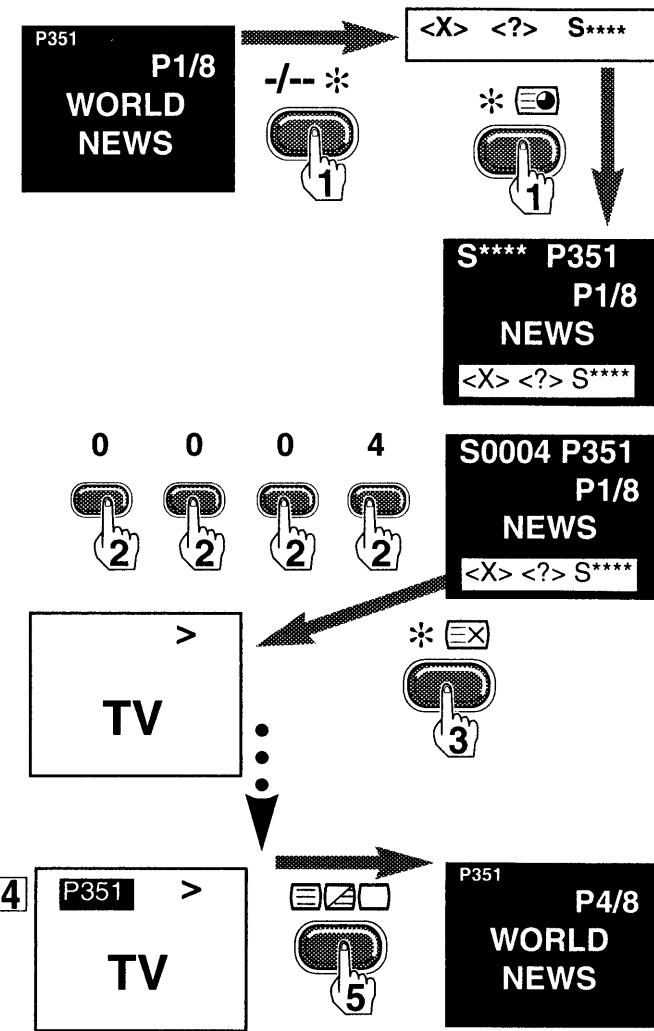
- 1 Enter the new page number. Press the **-/-\*** button and then press the **\*EX** button.
- 2 When the page is found, the page number will appear over the TV picture.
- 3 Press the **TEXT** button to view the teletext page.



# Teletext use

(Teletext not available on model 21M1 (C21EF90B))

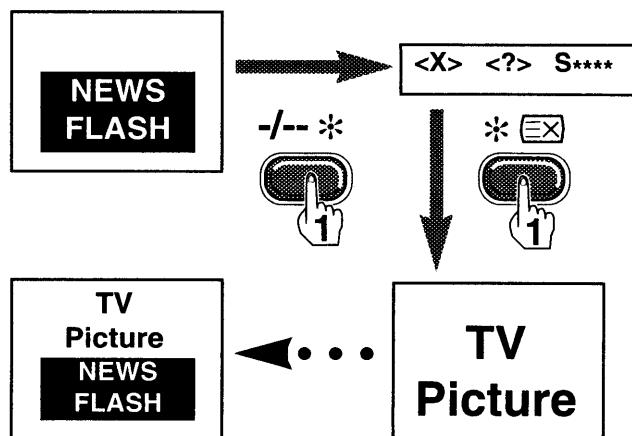
- Sub Page Access
- News Flash



## Sub Page Access

With a text page selected which has sub pages, you may wish to read a known sub page number.

- 1 Press the **-/-\*** button followed by the **\*[TV]** button. The characters "S\*\*\*\*" will be displayed on the top left corner of the screen.
- 2 Enter the sub page number by using the **Numeric (0-9)** buttons or use the **P▲▼** buttons. For example, to enter the sub page 4, press buttons 0, 0, 0 and 4.
- 3 Press the **\*[TV]** button to return the normal TV picture. The cancel symbol will appear over the TV picture.
- 4 Immediately the requested sub-coded page is found, the page number will appear over the TV picture.
- 5 Press the **[TV]** button to view the sub-coded page.
- 6 To clear the sub-coded page you must enter a new page number, because sub page rotation has been stopped.



## News Flash

Select a news flash teletext page.

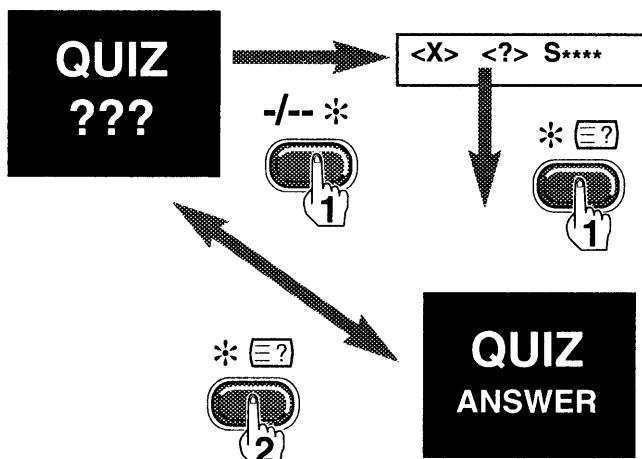
- 1 Press the **-/-\*** button followed by the **\*[TV]** button to return to the normal TV picture.
- 2 Immediately any news comes in, the word eg "News Flash" and the news will appear over the normal TV picture.
- 3 If you want to make the news disappear, press the **Function button** and the **\*[TV]** button.
- 4 To cancel the news flash page enter a new page number or return to TV mode.

# Teletext use

(Teletext not available on model 21M1 (C21EF90B))



- Revealing Concealed Information
- Updated Pages

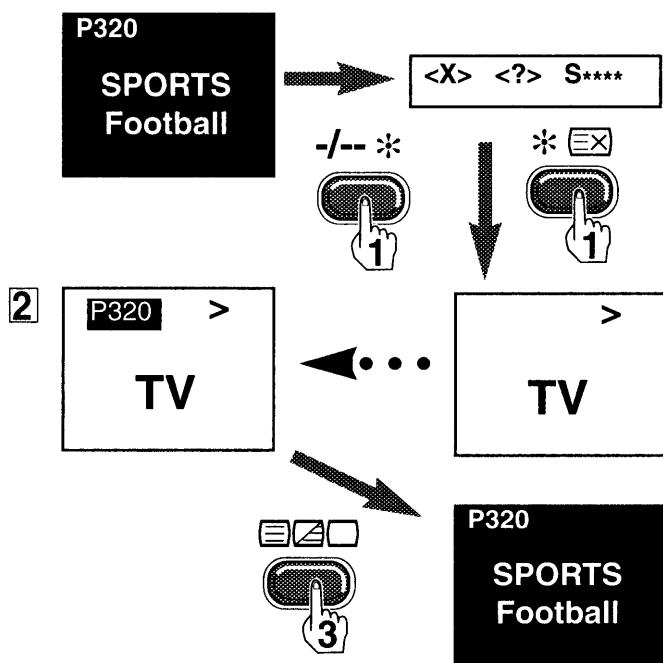


## Revealing Concealed Information

When a relevant teletext page is selected, eg. a quiz with questions and answers, you can find out the correct answer.

- 1 Press **<--\*** button followed by the **\*[?] [?]** button.
- 2 To make the answers disappear, press the **\*[?] [?]** button.

**Note:** You may have to press and hold the **\*[?] [?]** button.(This depends upon the individual teletext service).



## Updated Pages

There are teletext pages which are updated as events progress, such as sports scores, news reports or traffic information.

Select a page which will be updated.

- 1 Press the **<--\*** button and the **\*[?][?]** button to return to the normal TV picture.
- 2 Immediately the selected page is updated, the page number will appear over the normal TV picture.
- 3 Press the **[?][?][?]** button to view the updated page.

**NOTE:** If the teletext page is made up of sub pages the page number will appear over the TV picture every time the a sub page is rotated.

## ● Cancel

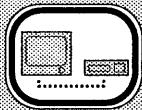
When you press the **\*[?][?]** button, the green ">" mark is displayed at the top of the screen. Whilst this marks is displayed you can not select another TV programme. You should first switch back to TV reception by pressing the **[?][?][?]** button if required.

## ● Teletext Picture Control

The only adjustments that can be made to the TELETEXT picture is "CONTRAST". But any adjustments made to the picture in TELETEXT mode will take effect on the TV picture.

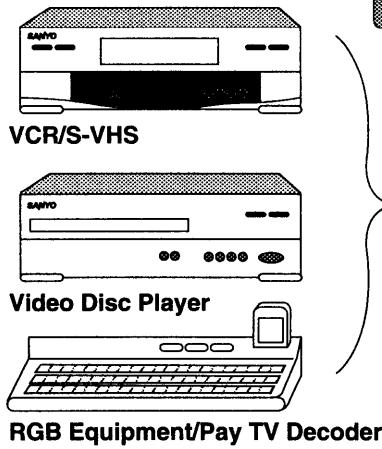
## ● Teletext reception

If your aerial signal is poor, the teletext reception may be poor.



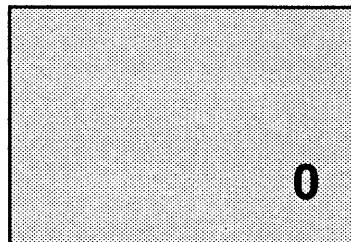
# Connection of AV equipment

- Connection via Scart Terminal
- Connection via Aerial Socket



## Connection via Scart Terminal

- ◆ Connect a VCR (normal or S-VHS type), a Video disc player, RGB equipment or Pay TV decoder using a 21 pin Scart lead to the AV terminal.
- ◆ Press the PLAY button on your AV equipment. Most AV equipment has automatic switching to the AV mode (8-pin function signal).
- ◆ If the AV picture does not appear your equipment may not have this signal.  
Select AV mode by pressing the **TV/AV** button.  
(See TV/AV switching page 9)
- ◆ Select the input mode to match the connected equipment by pressing the **◇/PT** button on the TV set.  
(See AV Input mode selection page 9)



## Connection via Aerial Socket

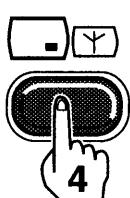
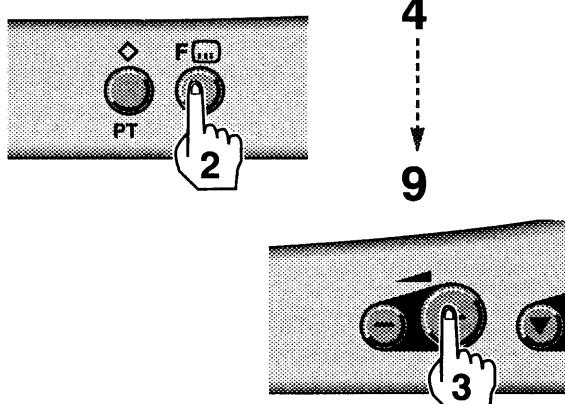
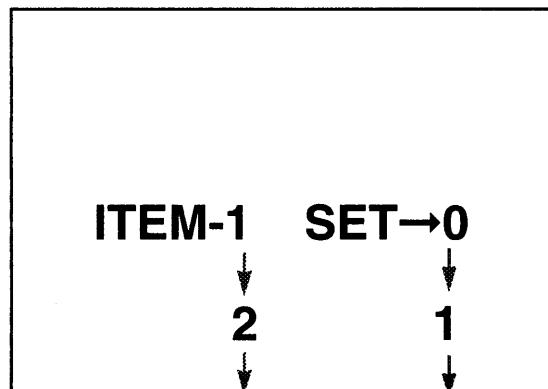
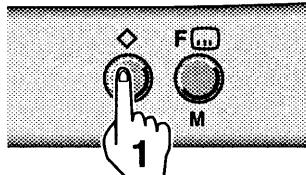
If you do not have a 21 pin Scart lead or your AV equipment does not have a scart socket you can connect your VCR or other AV equipment via the aerial socket. The VCR should be tuned to programme position 0 (P0), this has been especially designed for VCR use.

# Special Functions

SPECIAL

## Setting Procedure ●

### Setting Procedure



1 Press and hold the **F** button on the TV set and at the same time press the **Recall button** until the display appears.

2 To select the "ITEM" number, press the **F** button.

3 To select the "SET" number, press the **- +** button.

4 To return to the normal TV mode, press the **- +** button.

- The setting conditions of all items can be confirmed.
- Special functions are not cancelled if the TV set is switched off or the mains disconnected.

The following Special Functions can be set up on this TV set.

#### ITEM 1

Sets the current volume as the maximum volume level.  
Prohibits the use of the Preset functions. (for hotel use)

SET→ 0 NO  
SET→ 1 YES

#### ITEM 2

Presets the programme position when the set is switched on.

SET→ 0 Last programme position start  
SET→ 1 Programme position "1" start  
SET→ 2 Programme position "2" start  
SET→ 3 Programme position "3" start  
SET→ 4 Programme position "4" start  
SET→ 5 Programme position "5" start  
SET→ 6 Programme position "6" start  
SET→ 7 Programme position "7" start  
SET→ 8 Programme position "8" start  
SET→ 9 "AV" start

#### ITEM 3

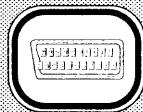
Presets the switch on condition.

SET→ 0 Last status start  
SET→ 1 Standby start

#### ITEM 4

Governs SCART 8-pin function signal.

SET→ 0 When the TV/AV button is pressed the TV will switch to TV mode overriding the SCART 8-pin function signal.  
SET→ 1 The SCART 8-pin function signal will switch the TV to AV mode when the play button is pressed.



# Specifications

- TV Specification
- Scart Specification

## TV Specification

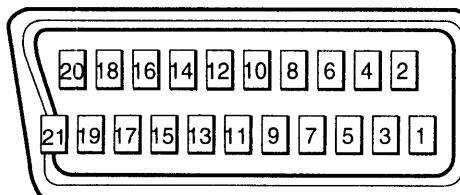
<u>Common specifications</u>	
Power source	AC 220~240V 50Hz
Television system	System I
Colour system	PAL
Receiving channel	UHF 21~69
Aerial input impedance	75ohm
AV terminal	
21-Pin SCART Terminal	
INPUT:	Video/RGB/Audio, S-video (25MT1 only)
OUTPUT:	TV out(Video/Audio) RCA terminal
External Speaker Socket	1.5 watts (14MT1)
Sound output	3.0 watts (21M1/21MT1 & 25MT1)
Picture tube (Diagonal)	37 cm (14MT1) 55 cm (21M1/21MT1) 63 cm (25MT1)
(Visible picture diagonal)	34 cm (14MT1) 51 cm (21M1/21MT1) 59 cm (25MT1)
Dimensions (W x H x D mm)	370 x 335 x 391.5 (14MT1) 516 x 471 x 495 (21M1/21MT1) 584.5 x 533.5 x 466.6 (25MT1)
Weight	9.0 Kg (14MT1) 20.5 Kg (21M1/21MT1) 31.0 Kg (25MT1)

## Scart Specification

The specification of the 21 pin connector is as follows.

### AV Terminal

Pin 1	Audio output	0.5V/ 1 K ohm	Pin 16	Fast blanking	L:0-0.4V
Pin 2	Audio Input	0.5V/10 K ohm			H:1-3V
Pin 3	Audio output	0.5V/ 1 K ohm	Pin 17	Earth(video)	
Pin 4	Audio earth		Pin 18	Earth	
Pin 5	Earth (blue)		Pin 19	Video output (TV output)	1 Vpp/75 ohm
Pin 6	Audio Input	0.5V/10 K ohm	Pin 20	Video/sync. (or luminance input)*	1 Vpp/75 ohm
Pin 7	Blue (B) input	0.7Vpp/75 ohm	Pin 21	Connector shield	
Pin 8	Remote switch input	L:0-2V H:10-12V			
Pin 9	Earth (green)			*model 25MT1 only	
Pin 10					
Pin 11	Green (G) input	0.7Vpp/75 ohm			
Pin 12					
Pin 13	Earth (red)				
Pin 14	Earth				
Pin 15	Red (R) (or chrominance input)*	0.7Vpp/75 ohm			





## Helpful Hints



Your television is fully transistorised and does not contain any user serviceable components.  
**Removal of the cabinet cover may expose you to dangerous voltages.**  
**Refer all servicing to qualified service personnel.**

**Unplug the television receiver from the wall outlet and refer servicing to qualified service personnel under the following conditions:**

- If the power cord or plug is damaged.
- If liquid has been spilt into the television receiver.
- If television receiver has been exposed to rain or water.
- If the television receiver has been dropped or the cabinet has been damaged.
- If the television receiver exhibits a distinct change in performance.
- If the television receiver does not operate normally by following the operating instructions. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage. This will often require extensive work by a qualified technician to restore the television receiver to normal operation.

When replacement parts are required, have the service technician verify that the replacements he uses have the same safety characteristics as the original parts. Use of manufacturers specified replacements can prevent fire, shock or other hazards.



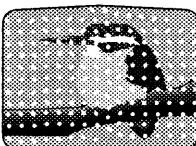
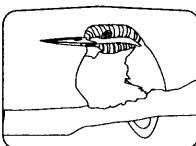
### ■ NO PICTURE, NO SOUND

- Check if TV is plugged in.
- Try a different channel, if OK, probably station trouble.



### ■ POOR PICTURE, SOUND OK

- Adjust BRIGHTNESS control.
- Adjust FINE TUNING control.
- Check aerial connections

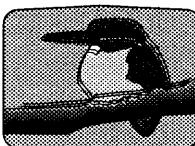


### ■ NO COLOUR, PICTURE OK

- Adjust COLOUR control.
- Adjust FINE TUNING control.
- Is the programme in colour ?

### ■ WEAK PICTURE

- Check aerial connections on back of set.
- Check aerial for broken wires.
- Re-orient aerial.



### ■ The following faults are not caused by the receiver:

#### "GHOSTS"

Reflections of signals from mountains or high buildings will cause multiple images, called "Ghosts". These abnormal conditions can be reduced to minimum by repositioning aerial or by installing new one suited for your area.



#### "INTERFERENCE"

Interference may be caused by electrical appliances, car ignition systems, etc. This should normally be a temporary condition, but should this interference persist, contact your dealer.



# Warranty to Customer

Sanyo U.K. Sales Ltd. (the company) warrants to the initial retail purchaser that if this equipment is or becomes defective and that, in the opinion of the Company, the defect is due to faulty material or workmanship the Company will, for a period of 12 calendar months from the date of sale to the original purchaser repair or replace, at its sole option, free of charge, any such defective component part of the equipment, always provided that:-

1:The equipment has at all times been used in accordance with the operating instructions issued by the Company, and has not been connected to an electrical mains supply for which it has not been adjusted.

2:Accidental damage or damage caused by negligence or misuse by the user, is specifically excluded.

3:Unauthorised repairs, or any modification to the equipment which has not been expressly approved by the Company, shall render this warranty null and void.

4:Failure due to fair wear and tear of any item is specifically excluded.

This warranty is not transferable and is only applicable within the United Kingdom (and the Republic of Ireland).

Nothing in this express warranty affects the statutory rights available to the purchaser of this equipment.

**Note:** This warranty supersedes any other form of guarantee that may inadvertently have been enclosed with or attached to the product.

## Dear Customer.

Thank you for buying SANYO. This equipment should give you many years of pleasure and faithful service but in the event that a fault occurs, the following notes for you guidance may be helpful:-

1:PLEASE RETAIN YOUR PURCHASE RECEIPT WHICH WILL BE REQUIRED FOR SERVICE DURING WARRANTY.

2:If your Sanyo equipment proves faulty during the period of guarantee, take it or send it back to the dealer who originally supplied it together with this guarantee and the proof of purchase. We have made arrangements with our approved dealers under which they will carry out in guarantee service repairs on our behalf. In this way, we hope to reduce to a minimum the amount of time you will be without your equipment.

3:If for some reason it is impossible to return the equipment to the original supplier, please contact our Service Department at the address below for further advice.

4:Should the equipment require servicing after the expiry of the guarantee period, take or send it to the original supplier or any other Sanyo dealer. He will be pleased to give you a quotation for the repair.

Service Departments,  
Sanyo U.K. Sales Ltd.,  
Sanyo House,  
Otterspool Way,  
Watford, Hertfordshire WD2 8JX  
Tel: 01923 246363

**SANYO**